Colonial Pipeline Company

Water Well Survey

INCIDENT: **CR 251**

LOCATION: **Pelham, AL**

DATE & TIME PREPARED: **November 1, 2016 17:08**

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***Please note**: All approved plans must be filed with the appropriate Documentation Unit Leader (DOCL) to upload into WebIAP as well as disseminated to proper ICS Staff and/or included in the Situation Display.

CR251 EVENT, PELHAM, ALABAMA
WATER WELL RECONNAISSANCE AND SAMPLING PLAN

1 OVERVIEW

This document presents the plan for identifying locations of potential private water supply wells, verifying the present or absence of a given potential well, and conduct of water quality sampling where wells are verified and permission is granted for sampling. This plan is prepared in response to the CR251 release event in Pelham, AL.

2 APPROACH FOR WELL RECONNAISSANCE

A multi-tiered "desktop" approach will be taken to identify potential private water supply wells in a 1-mile radius of the release site (see Figure 1). One element will consist of a GIS-based identification of homesteads in the site vicinity (e.g., creating a .shp file of home and trailer rooftops from aerial photography review). A second element will consist of a review of well records available with the State of Alabama – it is expected these will be limited to scans of paper records (i.e., not true digital information) providing a general location description of the well along with well construction details. A GIS .shp file will be created from a best approximation of the well location from the scanned record. Finally, a windshield tour of the area will be conducted with the aforementioned information in hand and an attempt will be made to contain the residence owner in order to verify the presence of a domestic supply well and if present, to request permission to sample.

3 SAMPLING AND ANALYTICAL TESTING

The product pipeline is gasoline, therefore well water samples will be analyzed for BTEX (benzene, toluene, ethylbenzene, and xylene) and TPH-GRO (total petroleum hydrocarbons – gasoline range organics). The analytical laboratory is Analytical Environmental Services, Inc. (AES), Atlanta, Georgia.

The possession of samples must be traceable from the time of collection until they are analyzed by the analytical laboratory and the data are validated. To maintain and document sample possession, and ensure that proper analyses are performed on an individual sample, chain-of-custody (COC) procedures must be followed. During sample collection, a COC record (see below) will be initiated, and should include, at a minimum, the following information:

1) Project or Company Name;
2) Name of Sampler(s);
3) Sample Identification Number;
4) Date of Sample Collection;
5) Time of Sample Collection;
6) Location/Station Sampled;
7) Required Chem/Phys Analyses;
8) Preservatives Added to Samples;
9) Overnight Courier;
10) Signatures Documenting Change of Sample Custody; and
11) Contact and Phone Number

COC forms will accompany field samples at all times. When transferring possession of the samples, the individuals relinquishing and receiving the samples will sign, date, and note the time of transfer on the COC form. The samples will remain in the physical possession of the person assigned to the samples until they are transferred to another individual, shipped to the laboratory, or placed in locked storage. A copy of the completed COC form will be returned to the EPS Data Manager, and the original COC form should accompany the sample to the processing laboratory or the analytical laboratory. It should be sealed in a watertight Ziploc® - type bag, and taped to the underside of the lid of the shipping cooler. The shipping cooler should be taped closed (custody sealed) to prevent samples from being tampered with in any way.

4 SCHEDULE

The desktop evaluation is expected to be completed by November 2, 2016 with the windshield survey to immediately follow. Samples will be obtained as permission is granted, and if a resident is not present at the time of the initial attempt to contact, a follow-up attempt will be made on another day. In all, this effort is anticipated to be completed in 1 week. Sampling is planned to be performed one time for a given location, unless constituents are detected that may warrant follow-up sampling.

Figure 1. CR251 Release and 1-mile Radius